BRUHAT BANGALORE MAHANAGARA PALIKE

Yelahanka Zone, Bangalore

MEASUREMENT SHEET

POST MEASUREMENT

Name of Work:	Construction of drains at balaji layout in ward no. 08, Kodigehalli
Estimated Cost:	Rs. 300 Lakhs
Job Code / Indent No	008-19-000147
Head of Account:	P-1771
Name of Agency:	M/s. KR Cosntructions, Bangalore
PMC:	
Amount put to Tender:	Rs. 26,59,269.88
Amount Tender Price:	Rs. 24,78,699.53
Percentage:	(-) 6.79% below
Ref:	BBMP/EE/BTP/WO/68/2020-21 dated 05.08.2020
Period of Completion:	60 days

Post-Measurements Recorded on: 27-10-2020

Sl. No.	Description	Unit	No	L (m)	B1 (m)	B2 (m)	D/H (m)	Qty.	Quoted rate	Amount
1	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T & P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. - reinforced cement concrete grade M20 and above									
	Quantity vide Pre measurement recorded in E-MB in page No. 1									
		cum					Total	6.71		
		cum					Lim to	5.44	1569.97	8540.63
2	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T & P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. - rubble stone masonry in cement mortar									
	Quantity vide Pre measurement recorded in E-MB in page No. 2									
		cum					Total	8.26		
		cum					Lim to	7.12	346.80	2469.21

Contractor

Junior Engineer
Ward no. 08

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.,
Bangalore.

o.	Description	Unit	No	L (m)	B1 (m)	B2 (m)	D/H (m)	Qty.	Quoted rate	Amount
3	Earth work excavation by manual means in Ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3									
	Quantity vide Pre measurement recorded in E-MB in page No. 3									
		cum					Total	369.15		
		cum					Lim to	353.08	128.45	45353.12
17	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km									
	Quantity vide Pre measurement recorded in E-MB in page No. 4									
		cum					Total	313.77		
		cum					Lim to	305.56	81.61	24936.75
4	Providing and laying in position plain cement concrete of mix M7.5 with OPC cement @ 180 Kgs using 40mm and down size graded granite metal, corse aggregates @ 0.85 cum and fine aggregtes @ 0.58cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.									
	Quantity vide Pre measurement recorded in E-MB in page No. 5									
		cum					Total	55.34		
		cum					Lim to	47.88	5040.91	241358.77
5	Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1: 6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. - Available stones									
	Quantity vide Pre measurement recorded in E-MB in page No. 6									
		cum					Total	3.30		
		cum					Lim to	2.84	3064.49	8703.15
6	Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1: 6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. - New stones									
	Quantity vide Pre measurement recorded in E-MB in page No. 7									
		cum					Total	4.95		
		cum					Lim to	4.28	4540.97	19435.35

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Yeshwanthpura Zone, B.B.M.P.
Bangalore.

	Description	Unit	No	L (m)	B1 (m)	B2 (m)	D/H (m)	Qty.		Amount
7	Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work.									
	Quantity vide Pre measurement recorded in E-MB in page No. 8									
		sqm						Total 18.36		
		sqm						Lim to 15.84	140.30	2222.35
8	Providing and laying in position plain cement concrete of mix 1:2:4 with cement at 240 kg, with 20mm and down size graded granite metal coarse aggregate at 0.69 cum and fine aggregates at 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted for coping including cost of all materials, labour, HOM of machinery, curing, complete as per specifications with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work.									
	Quantity vide Pre measurement recorded in E-MB in page No. 9									
		cum						Total 2.12		
		cum						Lim to 1.83	5219.74	9552.12
9	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications.									
	Quantity vide Pre measurement recorded in E-MB in page No. 10									
		sqm						Total 1016.28		
								Lim to 1000.80	353.71	353992.96
11	Providing TMT/ Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications.									
	Quantity vide Pre measurement recorded in E-MB in page No. 11									
		MT						Total 6.88		
								Lim to 6.80	70145.89	477132.34
										476992.05
10	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams									
	bottom portion									
	Balaji layout road left side	cum	4	30.00	0.90	0.90	0.15	16.20		

16.20

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No.	Description	Unit	No	L (m)	B1 (m)	B2 (m)	D/H (m)	Qty.	Quoted rate	Amount
	Balaji layout road left side	cum	1	7.20	0.90	0.90	0.15	0.97		
	perpendicular drain	cum	1	38.80	0.90	0.90	0.15	5.23		
	Balaji layout road right side	cum	3	30.00	0.90	0.90	0.15	12.15		
	Balaji layout road right side	cum	1	15.50	0.90	0.90	0.15	2.09		
	Balaji layout 7th crs road	cum	1	9.60	0.90	0.90	0.15	1.29		
	In front of Oversees bank	cum	1	30.50	0.90	0.90	0.15	4.11		
	Balaji layout 8th crs road	cum	1	7.30	0.90	0.90	0.15	0.98		
	Side walls							0.00		
	Balaji layout road left side	cum	8	30.00	0.15	0.00	0.75	27.00		
	Balaji layout road left side	cum	2	7.20	0.15	0.00	0.90	1.94		
	perpendicular drain	cum	2	38.80	0.15	0.00	0.90	10.47		
	Balaji layout road right side	cum	6	30.00	0.15	0.00	0.75	20.25		
	Balaji layout road right side	cum	2	15.50	0.15	0.00	0.90	4.18		
	Balaji layout 7th crs road	cum	2	9.60	0.15	0.00	0.75	2.16		
	In front of Oversees bank	cum	2	30.50	0.15	0.00	0.90	8.23		
	Balaji layout 8th crs road	cum	2	7.30	0.15	0.00	0.90	1.97	103.02	
							Total	119.22		
							Lim to	115.83	5378.81	623027.56
12	Providing and laying in position reinforced cement concrete M20 mix with stone aggregates 20mm and downsize for slab (including steel reinforcement) including centering and shuttering, maching mixed, concrete laid in layers not exceeding 15cm thick well compacted cost of all materials, labour, HOM of machineries, curing complete as per specifications. - 200 mm thick									
	culvert-1 cross road	Sqm	1	5.00	1.50			7.50		
	culvert-2 cross road	Sqm	1	5.20	1.50			7.80		
							Total	15.30		
							Lim to	13.20	4103.84	54170.68
13	Providing and laying in position reinforced cement concrete M20 mix with stone aggregates 20mm and downsize for slab (including steel reinforcement) including centering and shuttering, maching mixed, concrete laid in layers not exceeding 15cm thick well compacted cost of all materials, labour, HOM of machineries, curing complete as per specifications. - 100 mm thick									
	Balaji layout road left side	Sqm	4	30.00	0.90			108.00		
	Balaji layout road left side	Sqm	1	7.20	0.90			6.48		
	perpendicular drain	Sqm	1	38.80	0.90			34.92		
	Balaji layout road right side	Sqm	3	30.00	0.90			81.00		
	Balaji layout road right side	Sqm	1	15.50	0.90			13.95		
	Balaji layout 7th crs road	Sqm	1	9.60	0.90			8.64		

252.99

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No.	Description	Unit	No	L (m)	B1 (m)	B2 (m)	D/H (m)	Qty.	Quoted rate	Amount
	In front of Oversees bank	Sqm	1	30.50	0.90			27.45		
	Balaji layout 8th crs road	Sqm	1	7.30	0.90			6.57	84.02	
							Total	287.01		
							Lim to	271.80	1957.41	532024.03
14	Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300 kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.64 cum and fine aggregares @ 0.43 cum with superplastisiser @ 3lts confirming to IS9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications									
	cross road	cum	1	25.00	4.00	3.80	0.15	14.62	14.25	
		cum					Total	14.62	14.25	
		cum					Lim to	13.65	5264.20	71856.33
15	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.									
	cross road	sqm	1	25.00	4.00	3.80		97.50	95	
							Total	97.50	95	
							Lim to	45.50	67.19	3057.14
16	Providing groove cutting for width of 5mm to 10mm and depth 80mm -100mm including cost of cutting machine , generater &HOM of machinery ,including cost of blade , coolant etc ., including cleaning of groove &providing sand and hot bitumen fillars and filler metal etc., including cost of conveyance of all materials , labour lead and lift charges and all other incident charges as per drawing									
	cross road	Rm	2	3.90				7.80		
		Rm					Total	7.80		
		Rm					Lim to	6.50	133.38	866.97
	Sub Total-1									**2478699.46**
	Add GST charges @ 12%									297443.93
	Total Rs									**2776143.39**

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

Verified

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